

THE COMMISSIONER OF PATENTS [REDACTED] TRADEMARKS
Washington, D.C. 20231

Dock No. TSMC98-574

Sir:

P1 ~~1~~ ~~2~~ ~~3~~ ~~4~~ ~~5~~ ~~6~~ ~~7~~ ~~8~~ ~~9~~ ~~10~~ ~~11~~ ~~12~~ ~~13~~ ~~14~~ ~~15~~ ~~16~~ ~~17~~ ~~18~~ ~~19~~ ~~20~~ ~~21~~ ~~22~~ ~~23~~ ~~24~~ ~~25~~ ~~26~~ ~~27~~ ~~28~~ ~~29~~ ~~30~~ ~~31~~ ~~32~~ ~~33~~ ~~34~~ ~~35~~ ~~36~~ ~~37~~ ~~38~~ ~~39~~ ~~40~~ ~~41~~ ~~42~~ ~~43~~ ~~44~~ ~~45~~ ~~46~~ ~~47~~ ~~48~~ ~~49~~ ~~50~~ ~~51~~ ~~52~~ ~~53~~ ~~54~~ ~~55~~ ~~56~~ ~~57~~ ~~58~~ ~~59~~ ~~60~~ ~~61~~ ~~62~~ ~~63~~ ~~64~~ ~~65~~ ~~66~~ ~~67~~ ~~68~~ ~~69~~ ~~70~~ ~~71~~ ~~72~~ ~~73~~ ~~74~~ ~~75~~ ~~76~~ ~~77~~ ~~78~~ ~~79~~ ~~80~~ ~~81~~ ~~82~~ ~~83~~ ~~84~~ ~~85~~ ~~86~~ ~~87~~ ~~88~~ ~~89~~ ~~90~~ ~~91~~ ~~92~~ ~~93~~ ~~94~~ ~~95~~ ~~96~~ ~~97~~ ~~98~~ ~~99~~ ~~100~~ ~~101~~ ~~102~~ ~~103~~ ~~104~~ ~~105~~ ~~106~~ ~~107~~ ~~108~~ ~~109~~ ~~110~~ ~~111~~ ~~112~~ ~~113~~ ~~114~~ ~~115~~ ~~116~~ ~~117~~ ~~118~~ ~~119~~ ~~120~~ ~~121~~ ~~122~~ ~~123~~ ~~124~~ ~~125~~ ~~126~~ ~~127~~ ~~128~~ ~~129~~ ~~130~~ ~~131~~ ~~132~~ ~~133~~ ~~134~~ ~~135~~ ~~136~~ ~~137~~ ~~138~~ ~~139~~ ~~140~~ ~~141~~ ~~142~~ ~~143~~ ~~144~~ ~~145~~ ~~146~~ ~~147~~ ~~148~~ ~~149~~ ~~150~~ ~~151~~ ~~152~~ ~~153~~ ~~154~~ ~~155~~ ~~156~~ ~~157~~ ~~158~~ ~~159~~ ~~160~~ ~~161~~ ~~162~~ ~~163~~ ~~164~~ ~~165~~ ~~166~~ ~~167~~ ~~168~~ ~~169~~ ~~170~~ ~~171~~ ~~172~~ ~~173~~ ~~174~~ ~~175~~ ~~176~~ ~~177~~ ~~178~~ ~~179~~ ~~180~~ ~~181~~ ~~182~~ ~~183~~ ~~184~~ ~~185~~ ~~186~~ ~~187~~ ~~188~~ ~~189~~ ~~190~~ ~~191~~ ~~192~~ ~~193~~ ~~194~~ ~~195~~ ~~196~~ ~~197~~ ~~198~~ ~~199~~ ~~200~~ ~~201~~ ~~202~~ ~~203~~ ~~204~~ ~~205~~ ~~206~~ ~~207~~ ~~208~~ ~~209~~ ~~210~~ ~~211~~ ~~212~~ ~~213~~ ~~214~~ ~~215~~ ~~216~~ ~~217~~ ~~218~~ ~~219~~ ~~220~~ ~~221~~ ~~222~~ ~~223~~ ~~224~~ ~~225~~ ~~226~~ ~~227~~ ~~228~~ ~~229~~ ~~230~~ ~~231~~ ~~232~~ ~~233~~ ~~234~~ ~~235~~ ~~236~~ ~~237~~ ~~238~~ ~~239~~ ~~240~~ ~~241~~ ~~242~~ ~~243~~ ~~244~~ ~~245~~ ~~246~~ ~~247~~ ~~248~~ ~~249~~ ~~250~~ ~~251~~ ~~252~~ ~~253~~ ~~254~~ ~~255~~ ~~256~~ ~~257~~ ~~258~~ ~~259~~ ~~260~~ ~~261~~ ~~262~~ ~~263~~ ~~264~~ ~~265~~ ~~266~~ ~~267~~ ~~268~~ ~~269~~ ~~270~~ ~~271~~ ~~272~~ ~~273~~ ~~274~~ ~~275~~ ~~276~~ ~~277~~ ~~278~~ ~~279~~ ~~280~~ ~~281~~ ~~282~~ ~~283~~ ~~284~~ ~~285~~ ~~286~~ ~~287~~ ~~288~~ ~~289~~ ~~290~~ ~~291~~ ~~292~~ ~~293~~ ~~294~~ ~~295~~ ~~296~~ ~~297~~ ~~298~~ ~~299~~ ~~300~~ ~~301~~ ~~302~~ ~~303~~ ~~304~~ ~~305~~ ~~306~~ ~~307~~ ~~308~~ ~~309~~ ~~310~~ ~~311~~ ~~312~~ ~~313~~ ~~314~~ ~~315~~ ~~316~~ ~~317~~ ~~318~~ ~~319~~ ~~320~~ ~~321~~ ~~322~~ ~~323~~ ~~324~~ ~~325~~ ~~326~~ ~~327~~ ~~328~~ ~~329~~ ~~330~~ ~~331~~ ~~332~~ ~~333~~ ~~334~~ ~~335~~ ~~336~~ ~~337~~ ~~338~~ ~~339~~ ~~3310~~ ~~3311~~ ~~3312~~ ~~3313~~ ~~3314~~ ~~3315~~ ~~3316~~ ~~3317~~ ~~3318~~ ~~3319~~ ~~33100~~ ~~33101~~ ~~33102~~ ~~33103~~ ~~33104~~ ~~33105~~ ~~33106~~ ~~33107~~ ~~33108~~ ~~33109~~ ~~33110~~ ~~33111~~ ~~33112~~ ~~33113~~ ~~33114~~ ~~33115~~ ~~33116~~ ~~33117~~ ~~33118~~ ~~33119~~ ~~331100~~ ~~331101~~ ~~331102~~ ~~331103~~ ~~331104~~ ~~331105~~ ~~331106~~ ~~331107~~ ~~331108~~ ~~331109~~ ~~331110~~ ~~331111~~ ~~331112~~ ~~331113~~ ~~331114~~ ~~331115~~ ~~331116~~ ~~331117~~ ~~331118~~ ~~331119~~ ~~3311100~~ ~~3311101~~ ~~3311102~~ ~~3311103~~ ~~3311104~~ ~~3311105~~ ~~3311106~~ ~~3311107~~ ~~3311108~~ ~~3311109~~ ~~3311110~~ ~~3311111~~ ~~3311112~~ ~~3311113~~ ~~3311114~~ ~~3311115~~ ~~3311116~~ ~~3311117~~ ~~3311118~~ ~~3311119~~ ~~33111100~~ ~~33111101~~ ~~33111102~~ ~~33111103~~ ~~33111104~~ ~~33111105~~ ~~33111106~~ ~~33111107~~ ~~33111108~~ ~~33111109~~ ~~33111110~~ ~~33111111~~ ~~33111112~~ ~~33111113~~ ~~33111114~~ ~~33111115~~ ~~33111116~~ ~~33111117~~ ~~33111118~~ ~~33111119~~ ~~331111100~~ ~~331111101~~ ~~331111102~~ ~~331111103~~ ~~331111104~~ ~~331111105~~ ~~331111106~~ ~~331111107~~ ~~331111108~~ ~~331111109~~ ~~331111110~~ ~~331111111~~ ~~331111112~~ ~~331111113~~ ~~331111114~~ ~~331111115~~ ~~331111116~~ ~~331111117~~ ~~331111118~~ ~~331111119~~ ~~3311111100~~ ~~3311111101~~ ~~3311111102~~ ~~3311111103~~ ~~3311111104~~ ~~3311111105~~ ~~3311111106~~ ~~3311111107~~ ~~3311111108~~ ~~3311111109~~ ~~3311111110~~ ~~3311111111~~ ~~3311111112~~ ~~3311111113~~ ~~3311111114~~ ~~3311111115~~ ~~3311111116~~ ~~3311111117~~ ~~3311111118~~ ~~3311111119~~ ~~33111111100~~ ~~33111111101~~ ~~33111111102~~ ~~33111111103~~ ~~33111111104~~ ~~33111111105~~ ~~33111111106~~ ~~33111111107~~ ~~33111111108~~ ~~33111111109~~ ~~33111111110~~ ~~33111111111~~ ~~33111111112~~ ~~33111111113~~ ~~33111111114~~ ~~33111111115~~ ~~33111111116~~ ~~33111111117~~ ~~33111111118~~ ~~33111111119~~ ~~331111111100~~ ~~331111111101~~ ~~331111111102~~ ~~331111111103~~ ~~331111111104~~ ~~331111111105~~ ~~331111111106~~ ~~331111111107~~ ~~331111111108~~ ~~331111111109~~ ~~331111111110~~ ~~331111111111~~ ~~331111111112~~ ~~331111111113~~ ~~331111111114~~ ~~331111111115~~ ~~331111111116~~ ~~331111111117~~ ~~331111111118~~ ~~331111111119~~ ~~3311111111100~~ ~~3311111111101~~ ~~3311111111102~~ ~~3311111111103~~ ~~3311111111104~~ ~~3311111111105~~ ~~3311111111106~~ ~~3311111111107~~ ~~3311111111108~~ ~~3311111111109~~ ~~3311111111110~~ ~~3311111111111~~ ~~3311111111112~~ ~~3311111111113~~ ~~3311111111114~~ ~~3311111111115~~ ~~3311111111116~~ ~~3311111111117~~ ~~3311111111118~~ ~~3311111111119~~ ~~33111111111100~~ ~~33111111111101~~ ~~33111111111102~~ ~~33111111111103~~ ~~33111111111104~~ ~~33111111111105~~ ~~33111111111106~~ ~~33111111111107~~ ~~33111111111108~~ ~~33111111111109~~ ~~33111111111110~~ ~~33111111111111~~ ~~33111111111112~~ ~~33111111111113~~ ~~33111111111114~~ ~~33111111111115~~ ~~33111111111116~~ ~~33111111111117~~ ~~33111111111118~~ ~~33111111111119~~ ~~331111111111100~~ ~~331111111111101~~ ~~331111111111102~~ ~~331111111111103~~ ~~331111111111104~~ ~~331111111111105~~ ~~331111111111106~~ ~~331111111111107~~ ~~331111111111108~~ ~~331111111111109~~ ~~331111111111110~~ ~~331111111111111~~ ~~331111111111112~~ ~~331111111111113~~ ~~331111111111114~~ ~~331111111111115~~ ~~331111111111116~~ ~~331111111111117~~ ~~331111111111118~~ ~~331111111111119~~ ~~3311111111111100~~ ~~3311111111111101~~ ~~3311111111111102~~ ~~3311111111111103~~ ~~3311111111111104~~ ~~3311111111111105~~ ~~3311111111111106~~ ~~3311111111111107~~ ~~3311111111111108~~ ~~3311111111111109~~ ~~3311111111111110~~ ~~3311111111111111~~ ~~3311111111111112~~ ~~3311111111111113~~ ~~3311111111111114~~ ~~3311111111111115~~ ~~3311111111111116~~ ~~3311111111111117~~ ~~3311111111111118~~ ~~3311111111111119~~ ~~33111111111111100~~ ~~33111111111111101~~ ~~33111111111111102~~ ~~33111111111111103~~ ~~33111111111111104~~ ~~33111111111111105~~ ~~33111111111111106~~ ~~33111111111111107~~ ~~33111111111111108~~ ~~33111111111111109~~ ~~33111111111111110~~ ~~33111111111111111~~ ~~33111111111111112~~ ~~33111111111111113~~ ~~33111111111111114~~ ~~33111111111111115~~ ~~33111111111111116~~ ~~33111111111111117~~ ~~33111111111111118~~ ~~33111111111111119~~ ~~331111111111111100~~ ~~331111111111111101~~ ~~331111111111111102~~ ~~331111111111111103~~ ~~331111111111111104~~ ~~331111111111111105~~ ~~331111111111111106~~ ~~331111111111111107~~ ~~331111111111111108~~ ~~331111111111111109~~ ~~331111111111111110~~ ~~331111111111111111~~ ~~331111111111111112~~ ~~331111111111111113~~ ~~331111111111111114~~ ~~331111111111111115~~ ~~331111111111111116~~ ~~331111111111111117~~ ~~331111111111111118~~ ~~331111111111111119~~ ~~3311111111111111100~~ ~~3311111111111111101~~ ~~3311111111111111102~~ ~~3311111111111111103~~ ~~3311111111111111104~~ ~~3311111111111111105~~ ~~3311111111111111106~~ ~~3311111111111111107~~ ~~3311111111111111108~~ ~~3311111111111111109~~ ~~3311111111111111110~~ ~~3311111111111111111~~ ~~3311111111111111112~~ ~~3311111111111111113~~ ~~3311111111111111114~~ ~~3311111111111111115~~ ~~3311111111111111116~~ ~~3311111111111111117~~ ~~3311111111111111118~~ ~~3311111111111111119~~ ~~33111111111111111100~~ ~~33111111111111111101~~ ~~33111111111111111102~~ ~~33111111111111111103~~ ~~33111111111111111104~~ ~~33111111111111111105~~ ~~33111111111111111106~~ ~~33111111111111111107~~ ~~33111111111111111108~~ ~~33111111111111111109~~ ~~33111111111111111110~~ ~~33111111111111111111~~ ~~33111111111111111112~~ ~~33111111111111111113~~ ~~33111111111111111114~~ ~~33111111111111111115~~ ~~33111111111111111116~~ ~~33111111111111111117~~ ~~33111111111111111118~~ ~~33111111111111111119~~ ~~331111111111111111100~~ ~~331111111111111111101~~ ~~331111111111111111102~~ ~~331111111111111111103~~ ~~331111111111111111104~~ ~~331111111111111111105~~ ~~331111111111111111106~~ ~~331111111111111111107~~ ~~331111111111111111108~~ ~~331111111111111111109~~ ~~331111111111111111110~~ ~~331111111111111111111~~ ~~331111111111111111112~~ ~~331111111111111111113~~ ~~331111111111111111114~~ ~~331111111111111111115~~ ~~331111111111111111116~~ ~~331111111111111111117~~ ~~331111111111111111118~~ ~~331111111111111111119~~ ~~3311111111111111111100~~ ~~3311111111111111111101~~ ~~3311111111111111111102~~ ~~3311111111111111111103~~ ~~3311111111111111111104~~ ~~3311111111111111111105~~ ~~3311111111111111111106~~ ~~3311111111111111111107~~ ~~3311111111111111111108~~ ~~3311111111111111111109~~ ~~3311111111111111111110~~ ~~3311111111111111111111~~ ~~3311111111111111111112~~ ~~3311111111111111111113~~ ~~3311111111111111111114~~ ~~3311111111111111111115~~ ~~3311111111111111111116~~ ~~3311111111111111111117~~ ~~3311111111111111111118~~ ~~3311111111111111111119~~ ~~33111111111111111111100~~ ~~33111111111111111111101~~ ~~33111111111111111111102~~ ~~33111111111111111111103~~ ~~33111111111111111111104~~ ~~33111111111111111111105~~ ~~33111111111111111111106~~ ~~33111111111111111111107~~ ~~33111111111111111111108~~ ~~33111111111111111111109~~ ~~33111111111111111111110~~ ~~33111111111111111111111~~ ~~33111111111111111111112~~ ~~33111111111111111111113~~ ~~33111111111111111111114~~ ~~33111111111111111111115~~ ~~33111111111111111111116~~ ~~33111111111111111111117~~ ~~33111111111111111111118~~ ~~33111111111111111111119~~ ~~331111111111111111111100~~ ~~331111111111111111111101~~ ~~331111111111111111111102~~ ~~331111111111111111111103~~ ~~331111111111111111111104~~ ~~331111111111111111111105~~ ~~331111111111111111111106~~ ~~331111111111111111111107~~ ~~331111111111111111111108~~ ~~331111111111111111111109~~ ~~331111111111111111111110~~ ~~331111111111111111111111~~ ~~331111111111111111111112~~ ~~331111111111111111111113~~ ~~331111111111111111111114~~ ~~331111111111111111111115~~ ~~331111111111111111111116~~ ~~331111111111111111111117~~ ~~331111111111111111111118~~ ~~331111111111111111111119~~ ~~3311111111111111111111100~~ ~~3311111111111111111111101~~ ~~3311111111111111111111102~~ ~~3311111111111111111111103~~ ~~3311111111111111111111104~~ ~~3311111111111111111111105~~ ~~3311111111111111111111106~~ ~~3311111111111111111111107~~ ~~3311111111111111111111108~~ ~~3311111111111111111111109~~ ~~3311111111111111111111110~~ ~~3311111111111111111111111~~ ~~3311111111111111111111112~~ ~~3311111111111111111111113~~ ~~3311111111111111111111114~~ ~~3311111111111111111111115~~ ~~3311111111111111111111116~~ ~~3311111111111111111111117~~ ~~3311111111111111111111118~~ ~~3311111111111111111111119~~ ~~33111111111111111111111100~~ ~~33111111111111111111111101~~ ~~33111111111111111111111102~~ ~~33111111111111111111111103~~ ~~33111111111111111111111104~~ ~~33111111111111111111111105~~ ~~33111111111111111111111106~~ ~~33111111111111111111111107~~ ~~33111111111111111111111108~~ ~~33111111111111111111111109~~ ~~33111111111111111111111110~~ ~~33111111111111111111111111~~ ~~33111111111111111111111112~~ ~~33111111111111111111111113~~ ~~33111111111111111111111114~~ ~~3311111111~~

5 Director: SHENG-CHI CHIN AND SHY-JAY LIN

A METHOD TO REDUCE PARTICLE LEVEL FOR DRY-ETCH

Dear Sirs, Enclosed are:

- 5 sheets of drawing(s) - formal.

An assignment of the invention to **Taiwan Semiconductor Manufacturing Company**

An associate power of attorney

The filing fee has been calculated as shown below:

(Col. 1)		(Col. 2)	OTHER THAN A SMALL ENTITY	
FOR:	NO. FILED	NO. EXTRA	RATE	Fee
BASIC FEE				\$ 760.
TOTAL CLAIMS	22 -20=	2	x 18 =	\$ 36.
INDEP CLAIMS	2 -3=	0	x 78 =	\$ 0.
MULTIPLE DEPENDENT CLAIM PRESENTED				+ 260 =
				SUB TOTAL \$ 796.
				ASSIGNMENT \$ 40.
				TOTAL \$ 836.

- Please charge my Deposit Account No. 19-0033 in the amount of \$ 836. A duplicate copy of this sheet is enclosed.

The Commissioner is hereby authorized to charge payment of the following fees associated with this communication or credit any overpayment to Deposit Account No. 19-0033. A duplicate copy of this sheet is enclosed.

Any additional filing fees required under 37 CFR §1.16.

Any patent application processing fees under 37 CFR §1.17.

Respectfully submitted,

STEPHEN B. ACKERMAN, REG. NO. 37,761